

FIG. 1

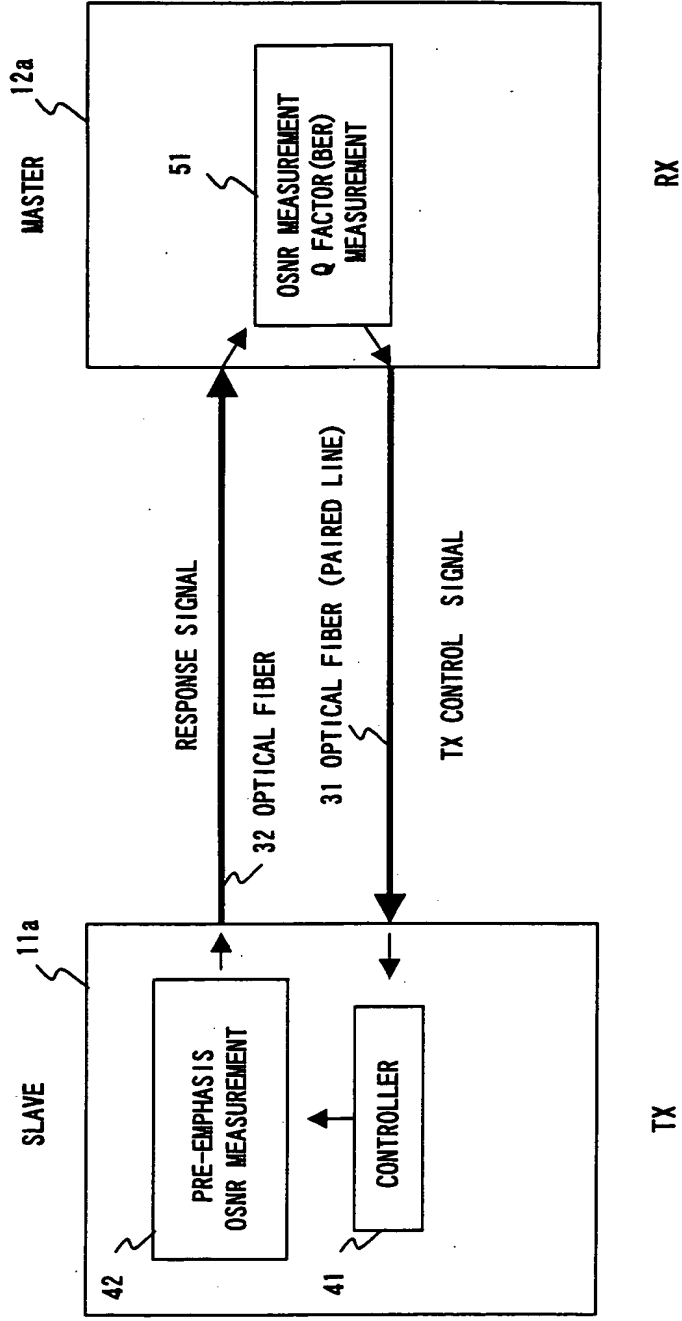


FIG. 2

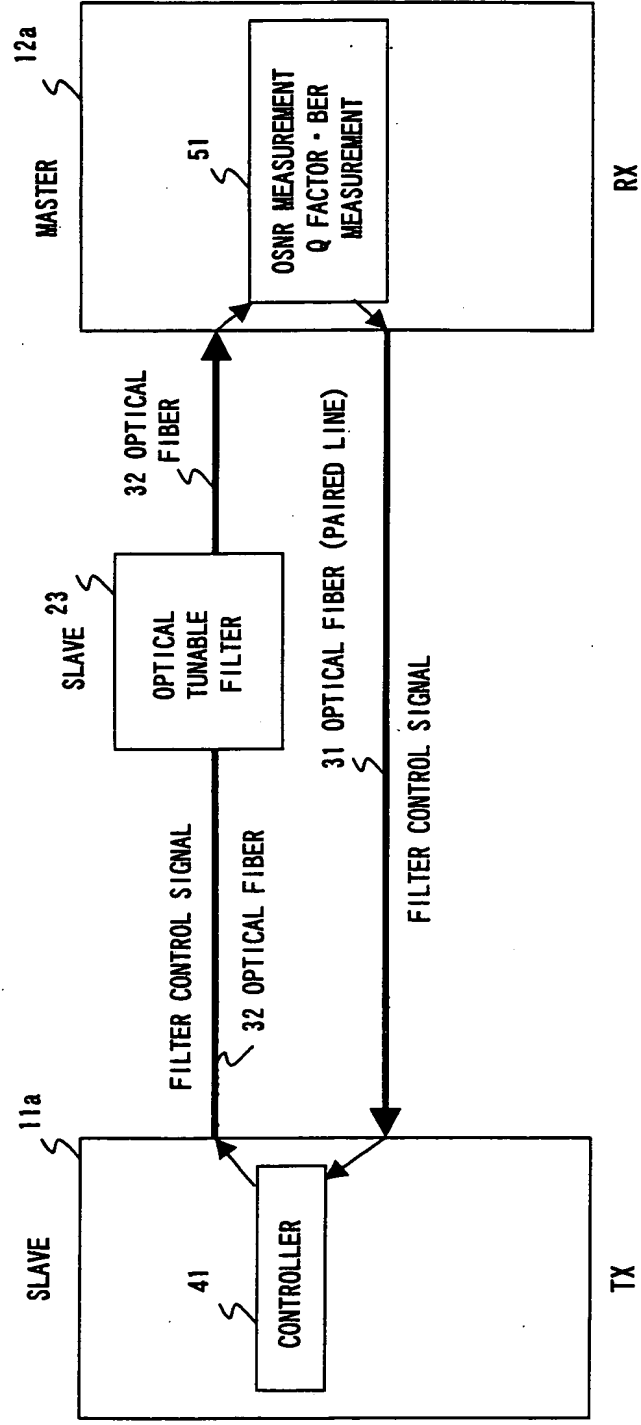


FIG. 3

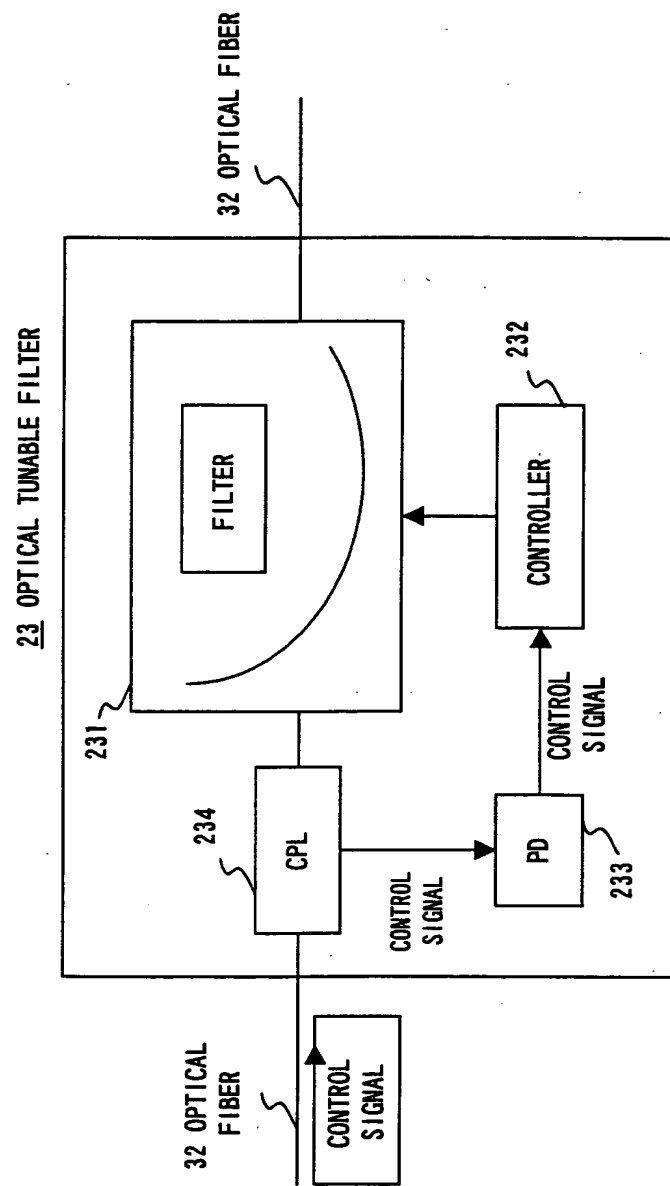


FIG. 4

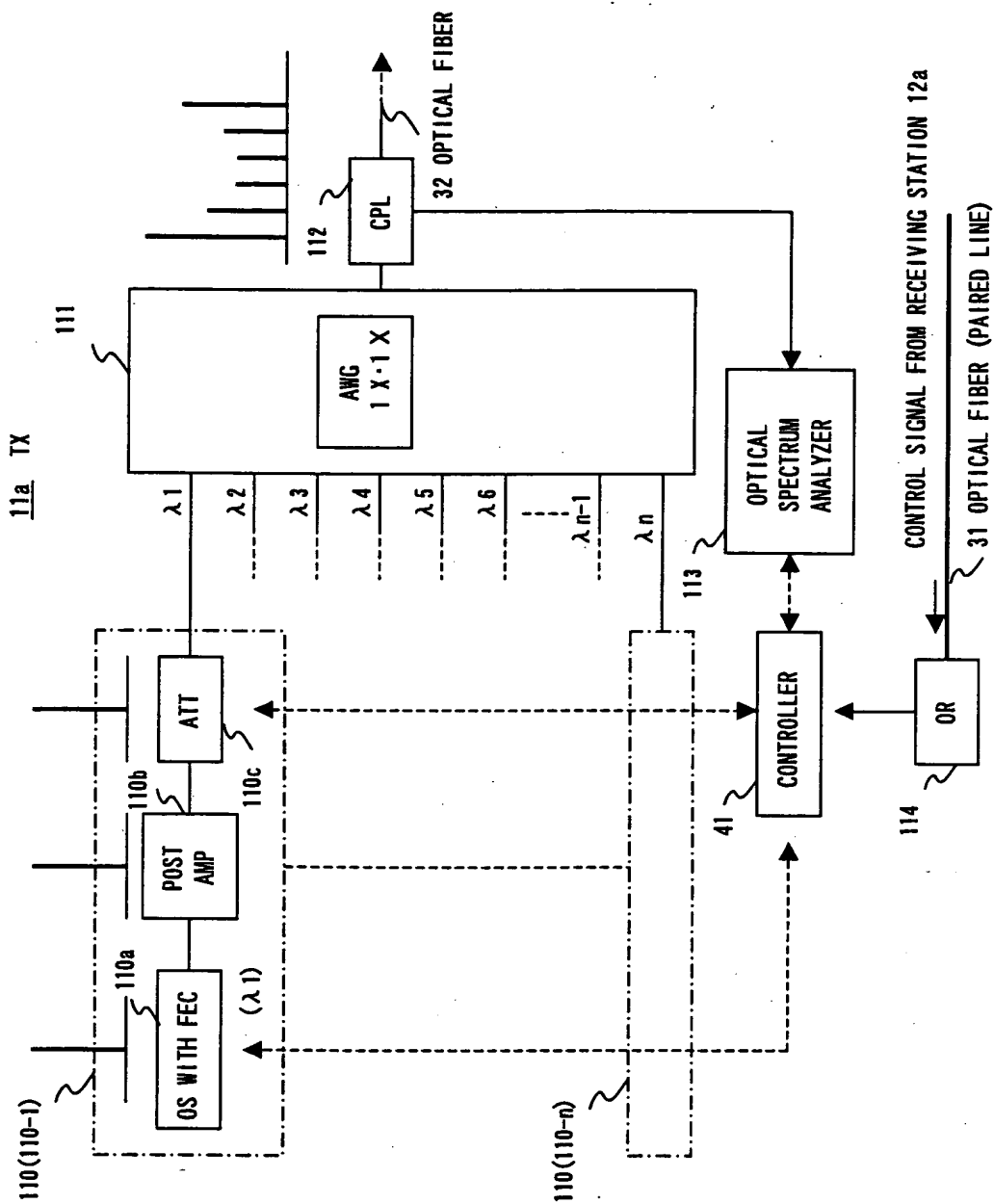


FIG. 5

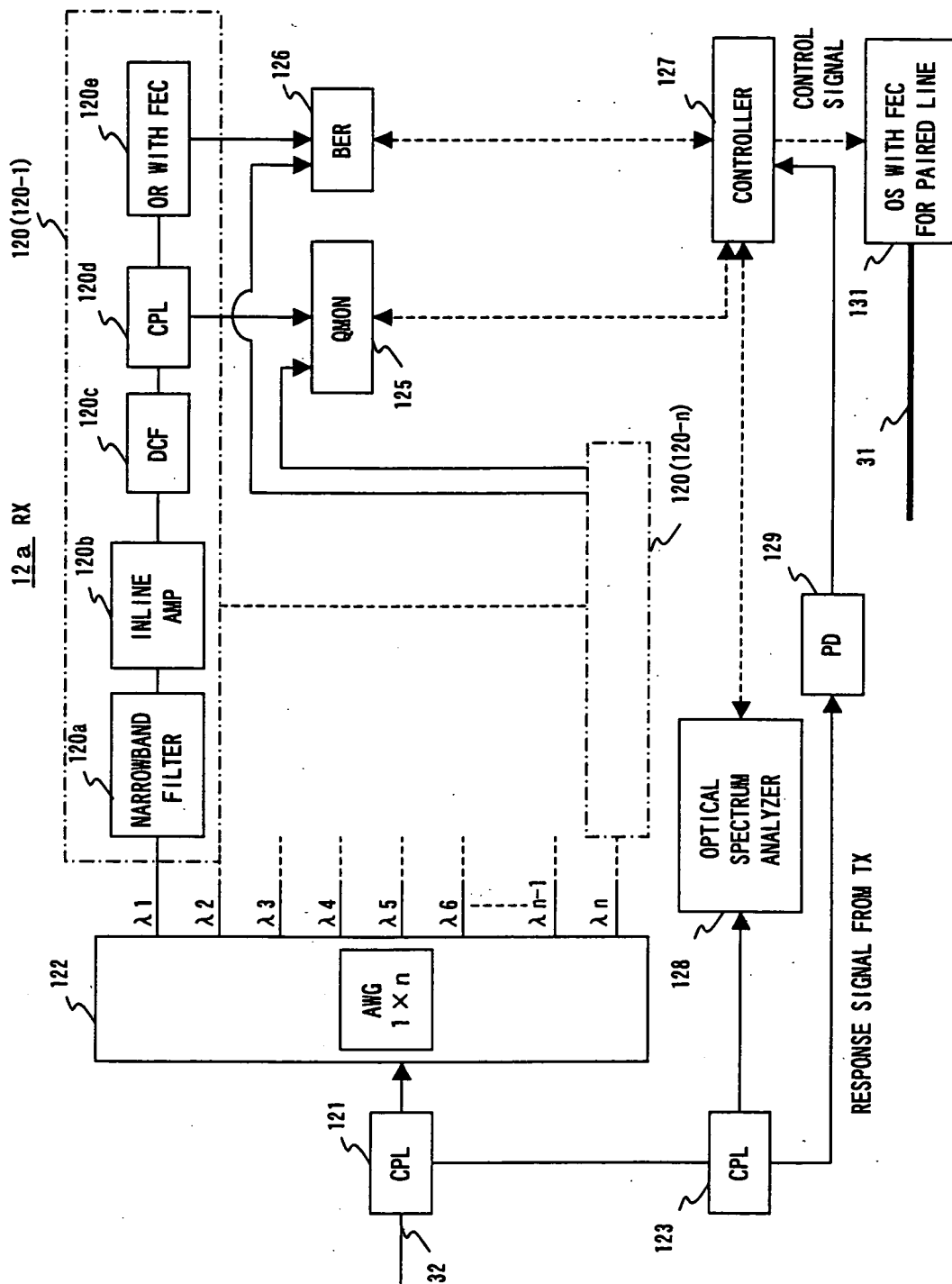


FIG. 6

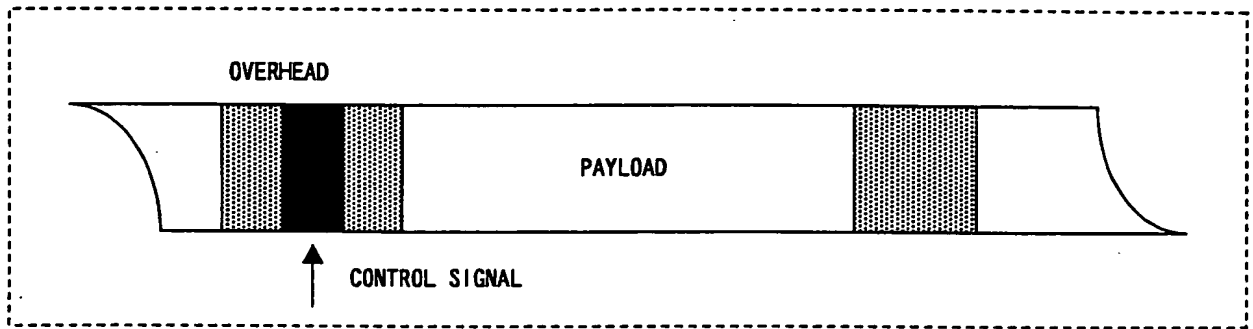


FIG. 7A

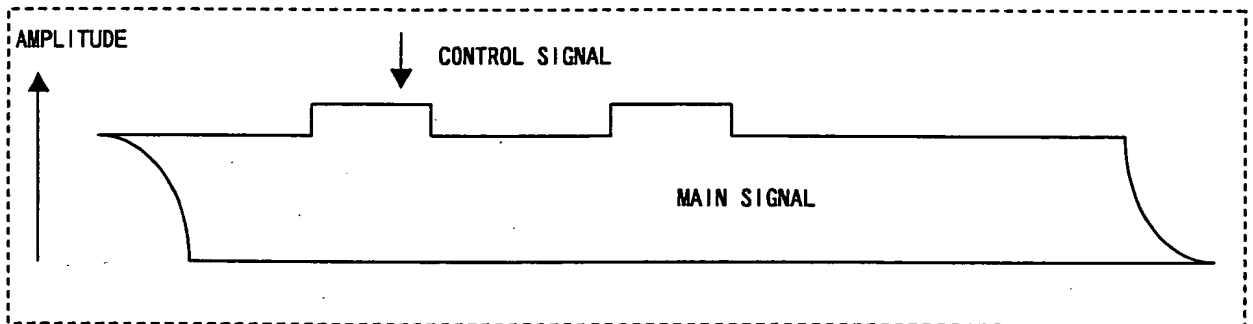


FIG. 7B

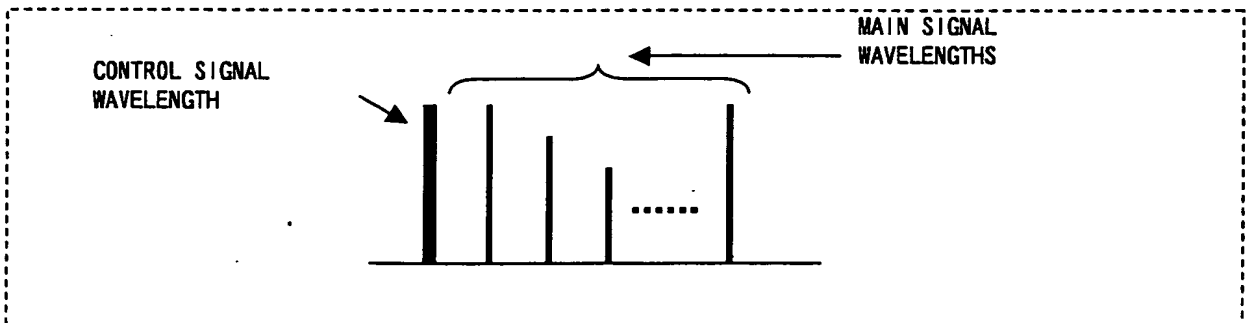


FIG. 7C

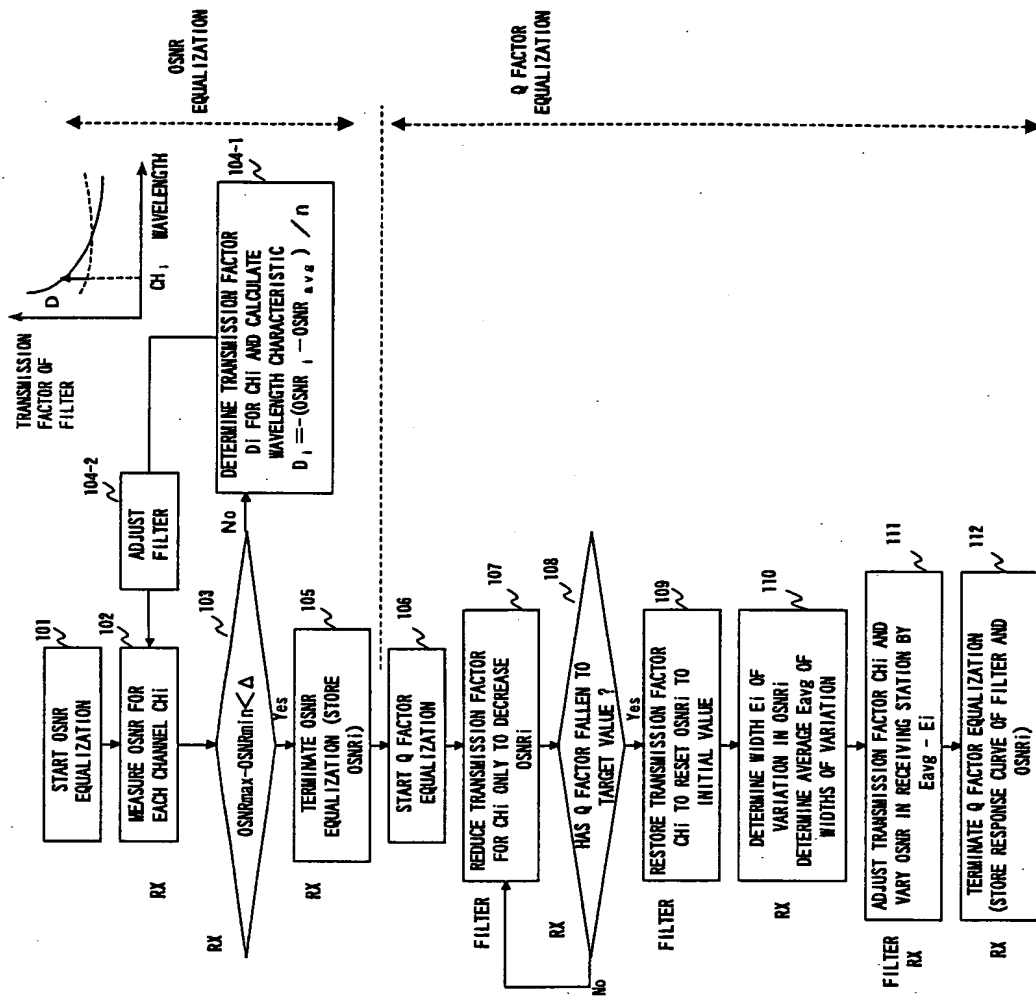


FIG. 8

000001 000001 000001

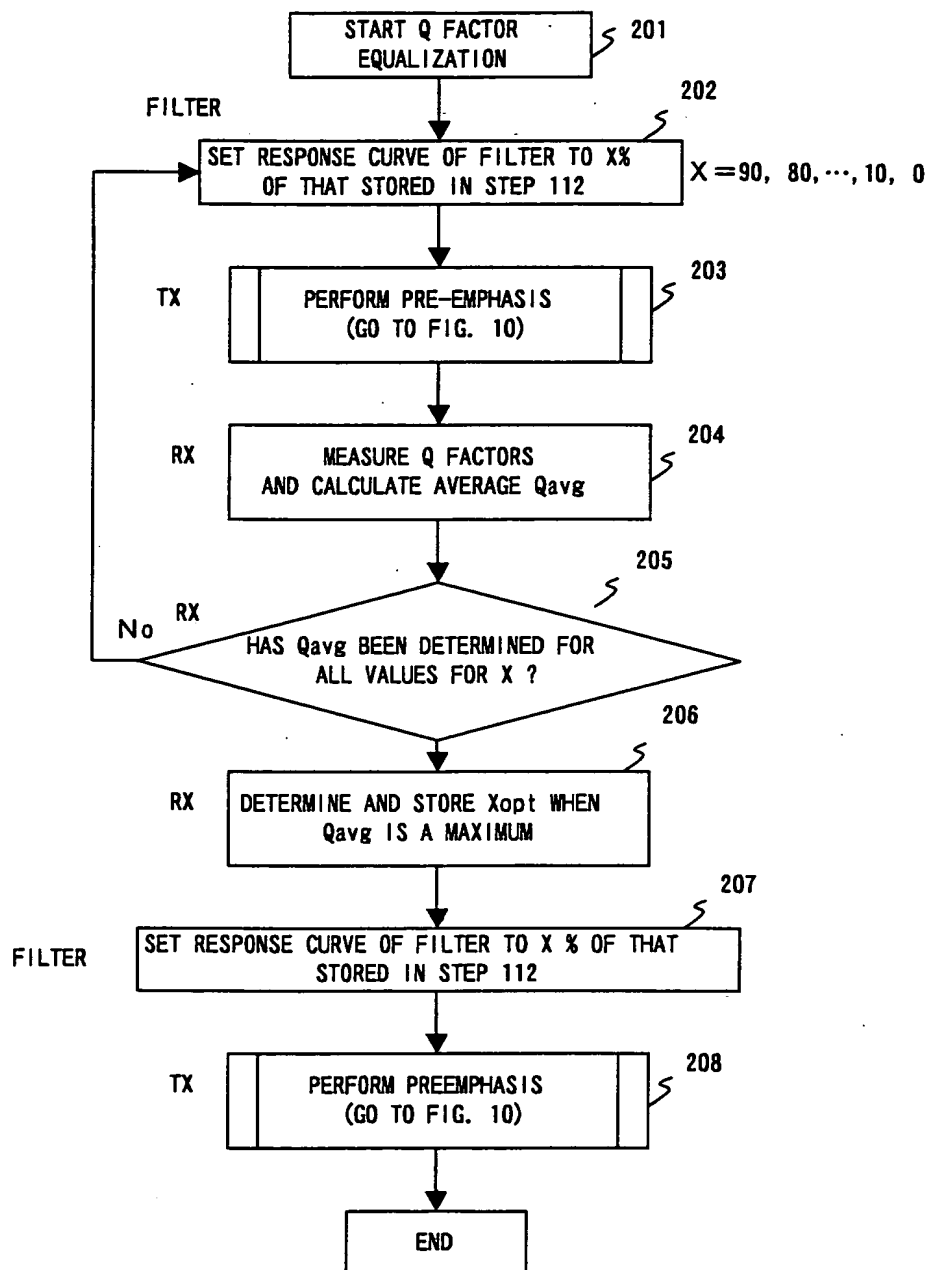


FIG. 9

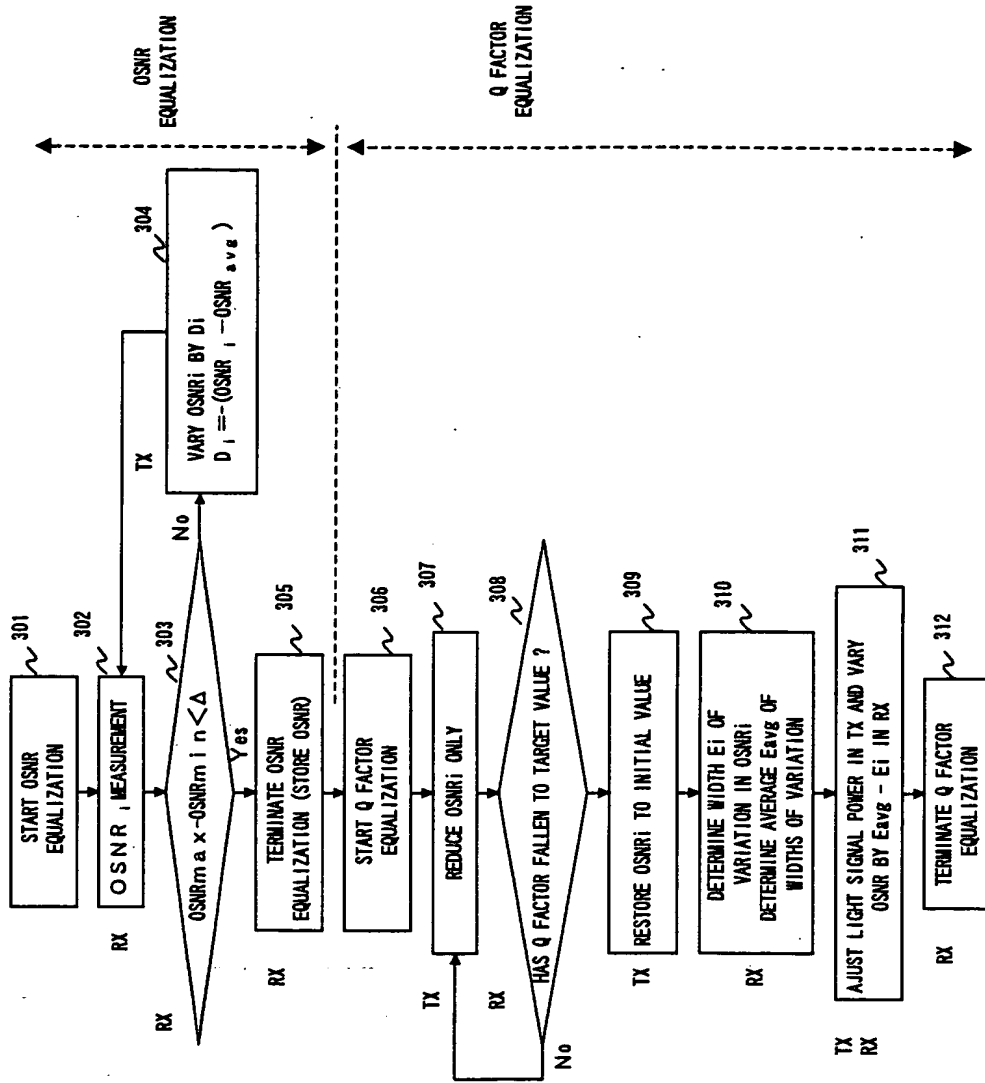


FIG. 10

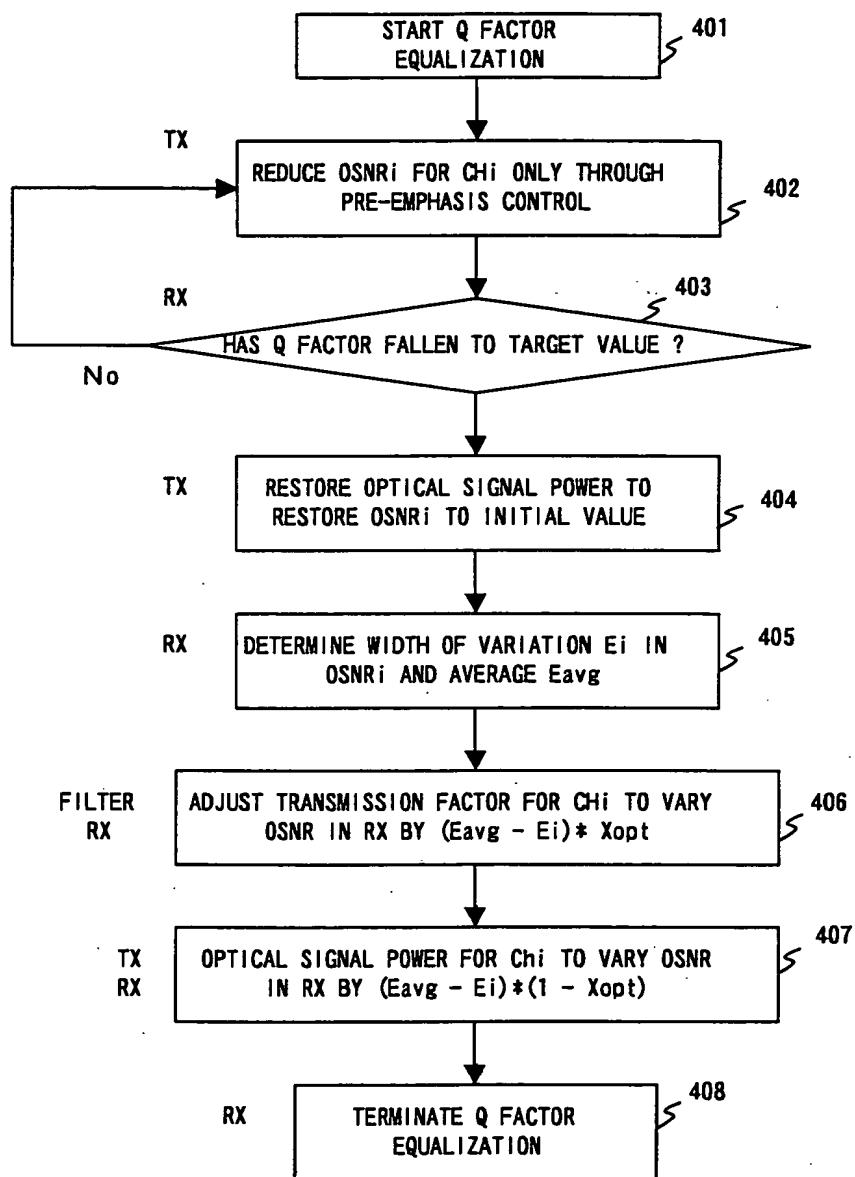


FIG. 11

The diagram shows two vertical bars representing the width of variation in OSNR for two channels, CH 1 and CH 2. The left bar (CH 1) is labeled "WIDTH OF VARIATION IN OSNR E1" and "OSNR WHEN Q FACTOR = TARGET VALUE B1". The right bar (CH 2) is labeled "E2" and "B2". A horizontal dotted line is shown between the two bars. The base of each bar is a shaded triangle labeled "CH 1" and "CH 2" respectively. An arrow labeled "NOISE" points to the shaded triangles.

FIG. 12

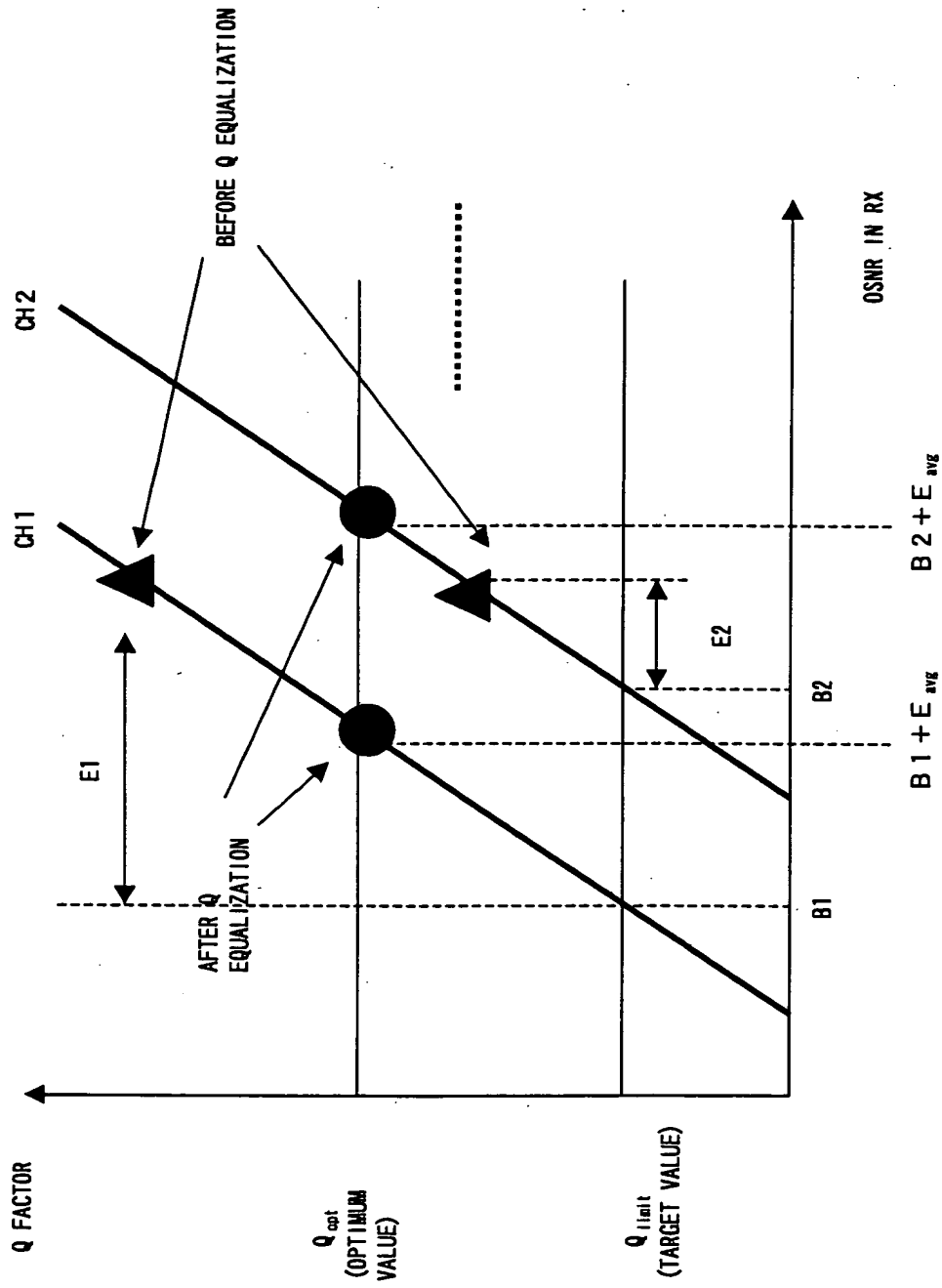


FIG. 13

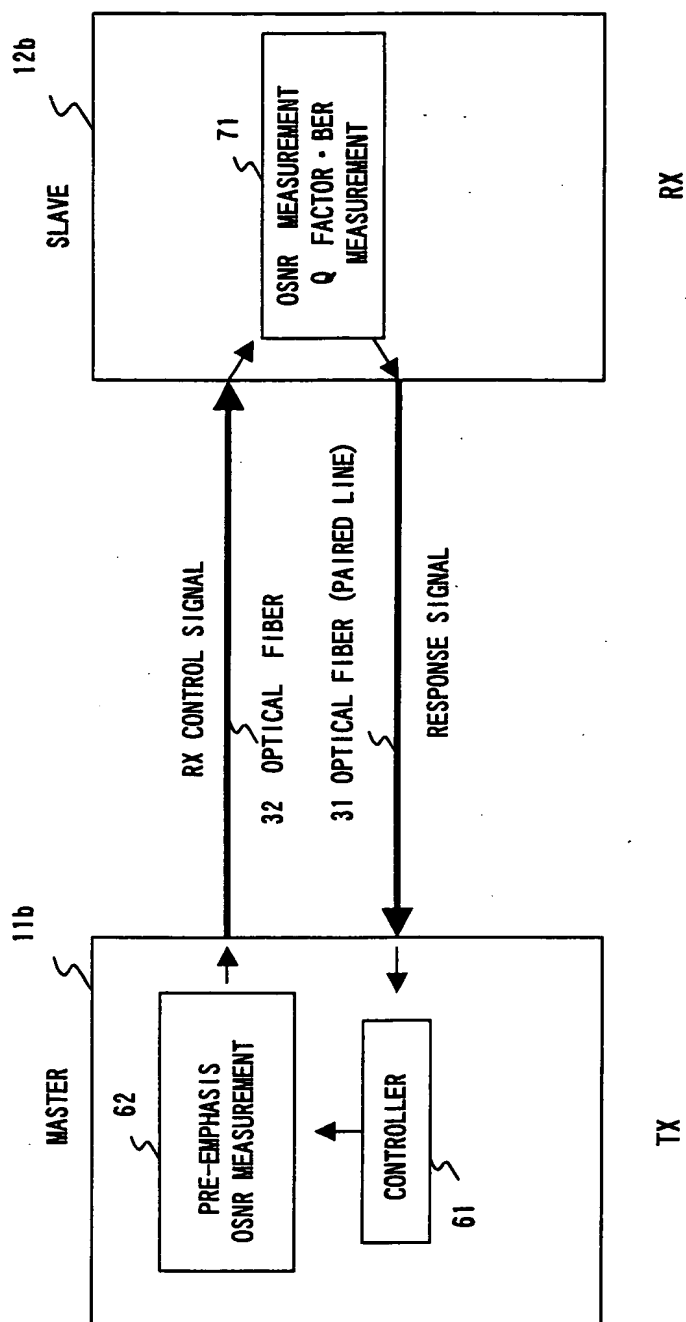


FIG. 14

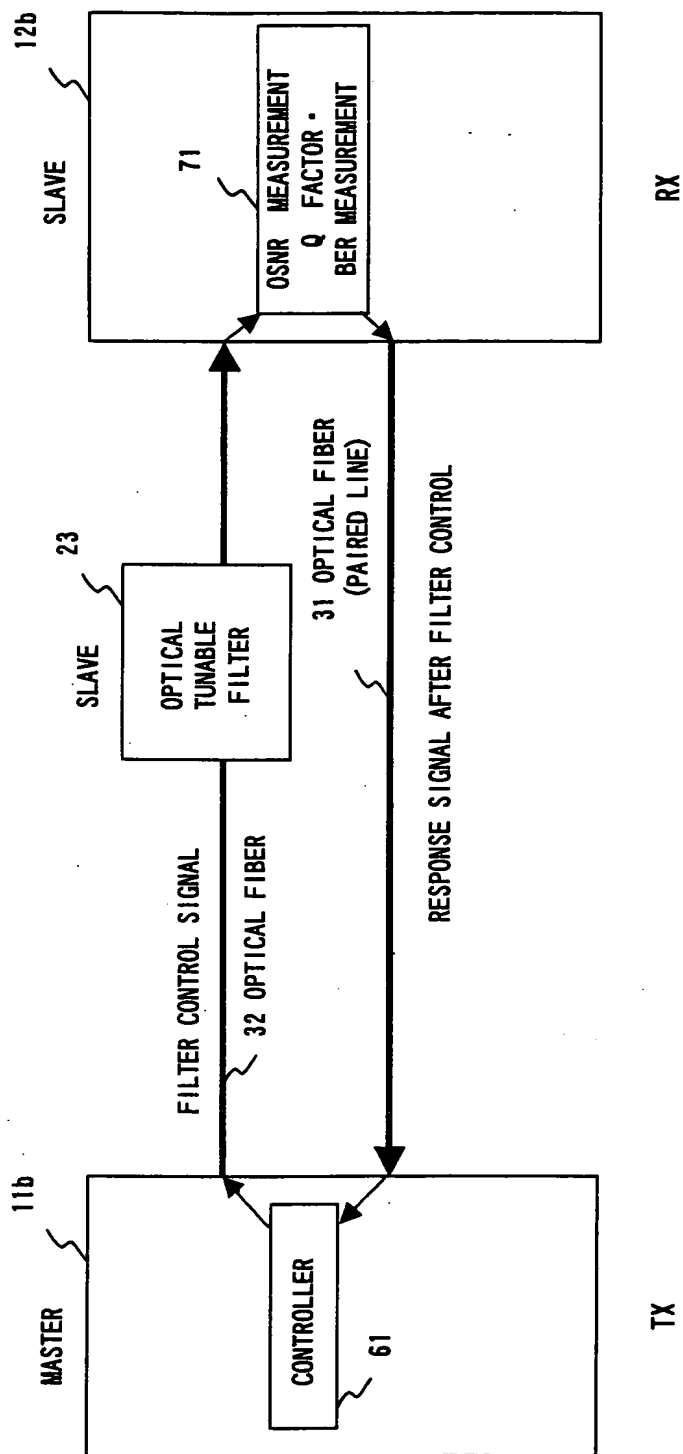


FIG. 15

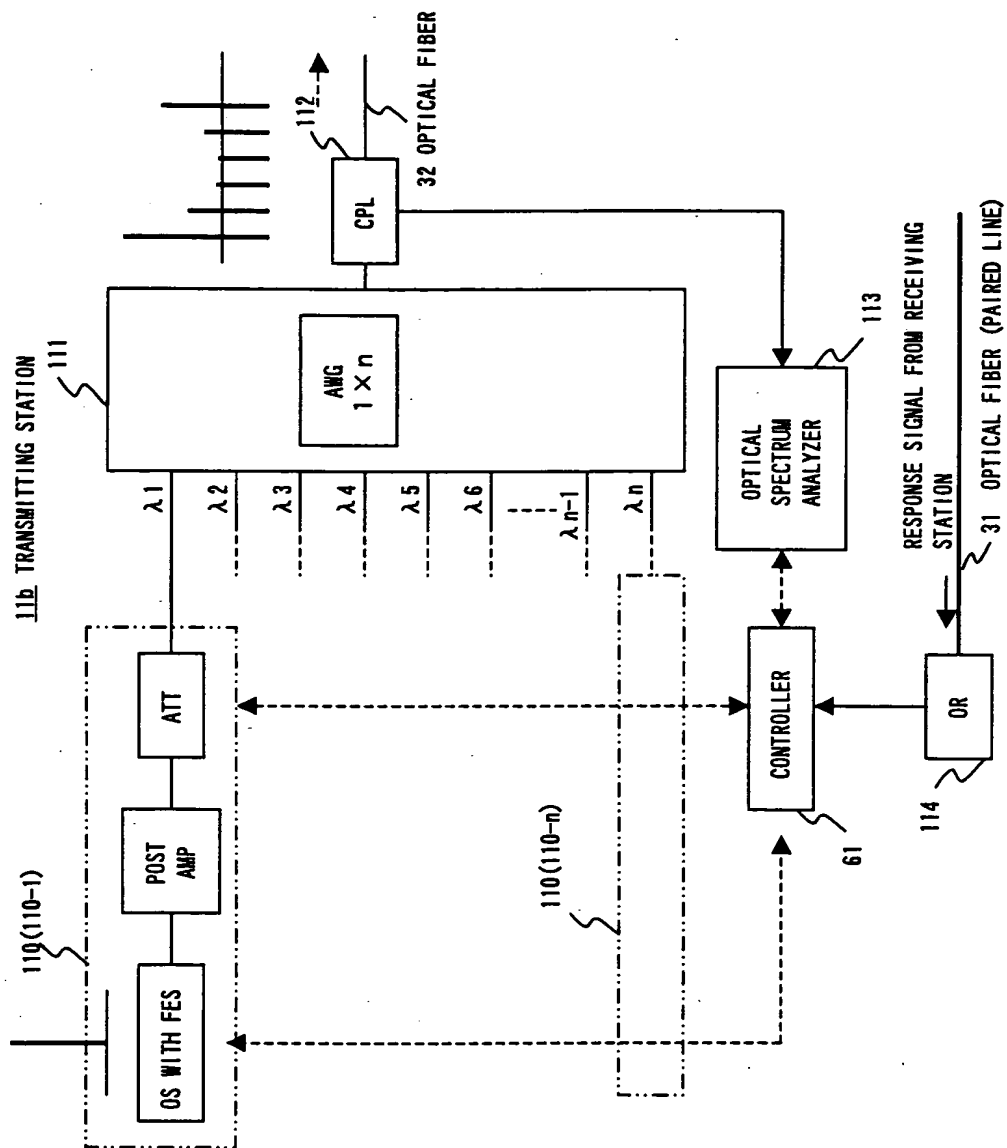


FIG. 16

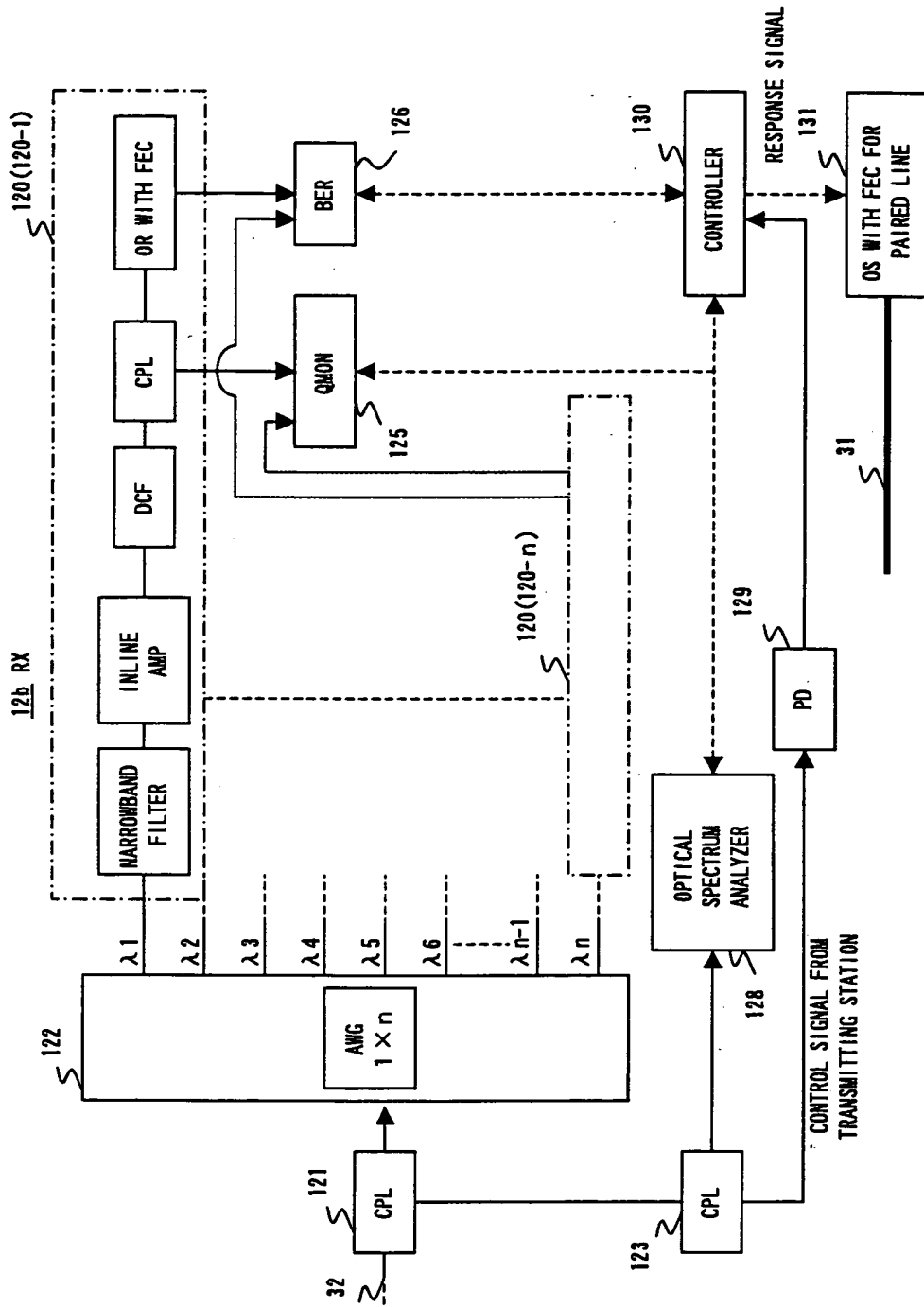


FIG. 17

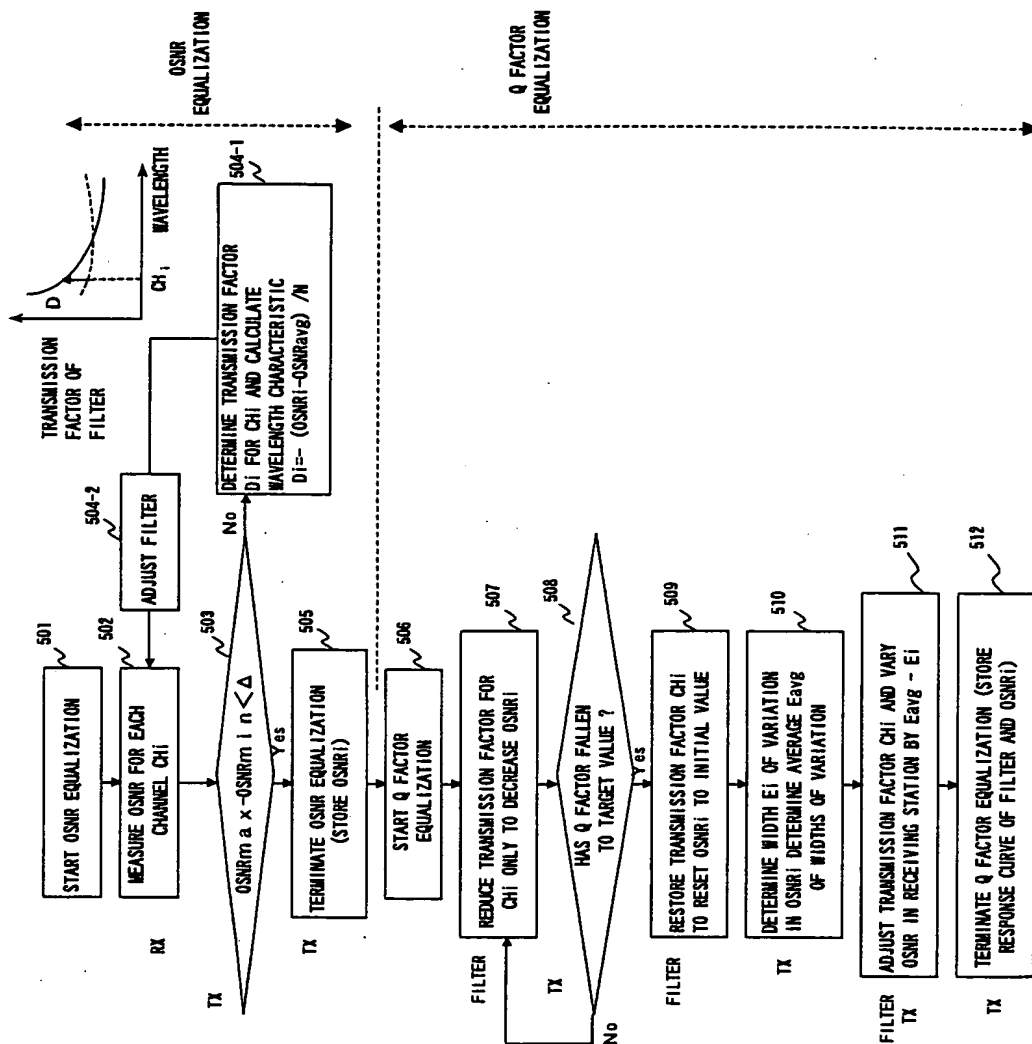


FIG. 18

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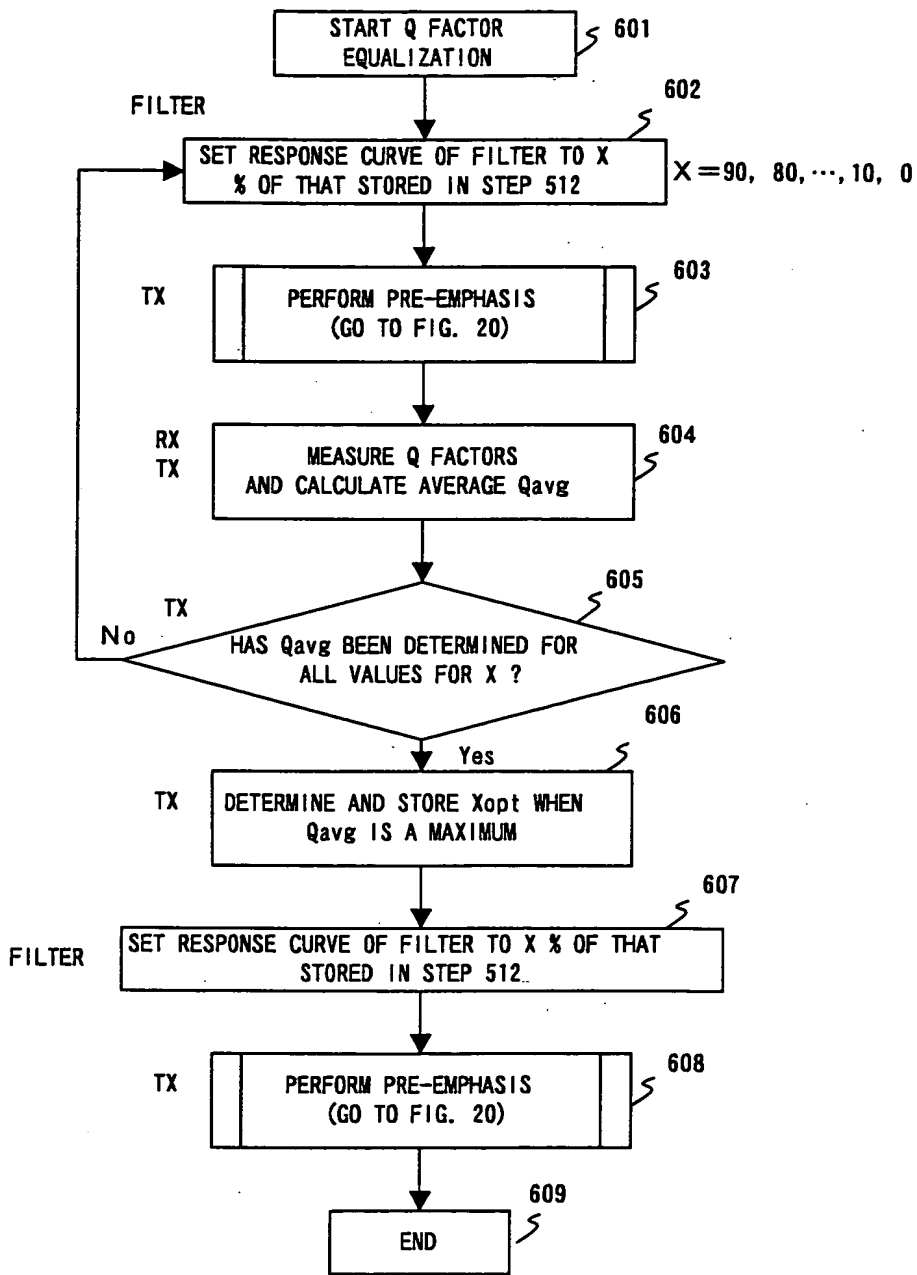


FIG. 19

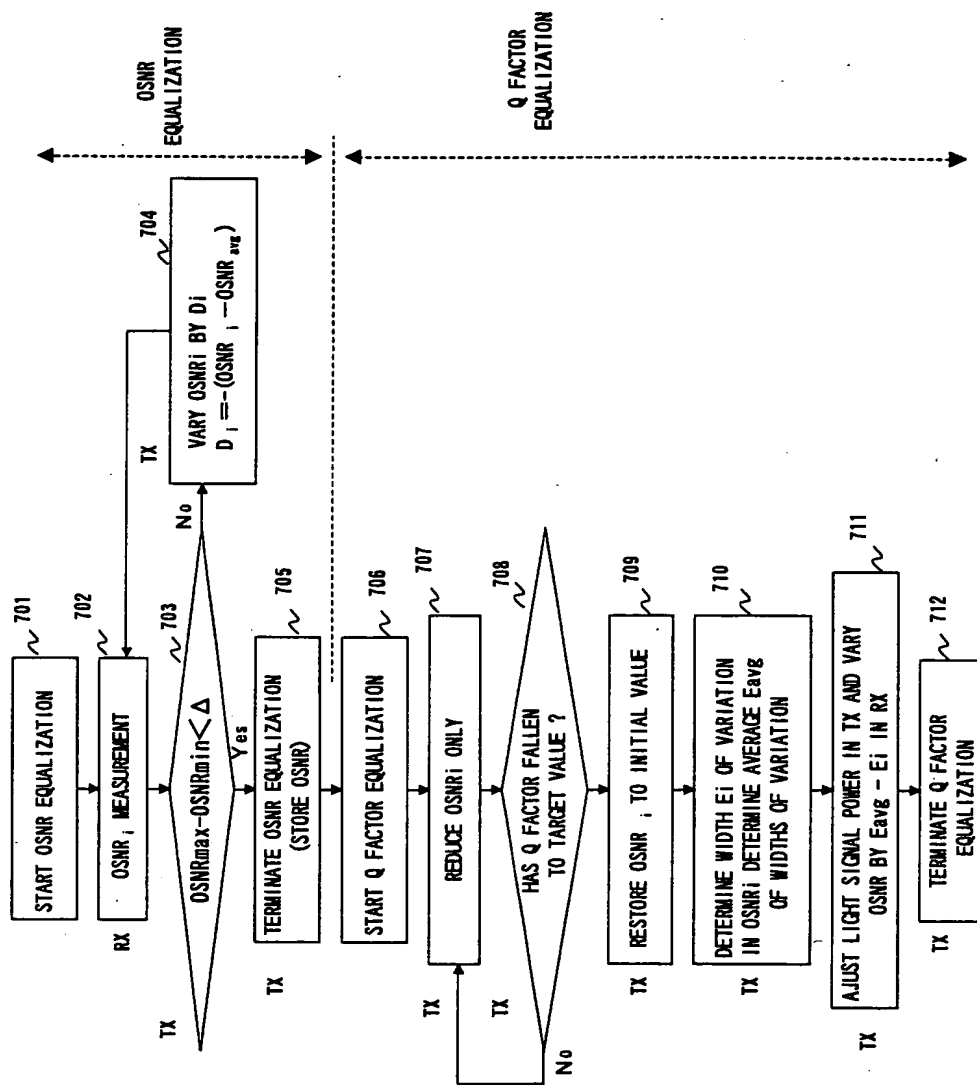


FIG. 20

```

graph TD
    801[START Q FACTOR EQUALIZATION] --> 802[REDUCE OSNRi FOR CHi ONLY THROUGH PRE-EMPHASIS CONTROL]
    802 --> 803{HAS Q FACTOR FALLEN TO TARGET VALUE ?}
    803 -- No --> 802
    803 -- Yes --> 804[RESTORE OPTICAL SIGNAL POWER TO RESTORE OSNRi TO INITIAL VALUE]
    804 --> 805[DETERMINE WIDTH OF VARIATION Ei IN OSNRi AND AVERAGE Eavg]
    805 --> 806[ADJUST TRANSMISSION FACTOR FOR CHi TO VARY OSNR IN RX BY (Eavg - Ei) * Xopt]
    806 --> 807[ADJUST OPTICAL SIGNAL POWER FOR CHi TO VARY OSNR IN RX BY (Eavg - Ei) * (1 - Xopt)]
    807 --> 808[TERMINATE Q FACTOR EQUALIZATION]

```

FIG. 21

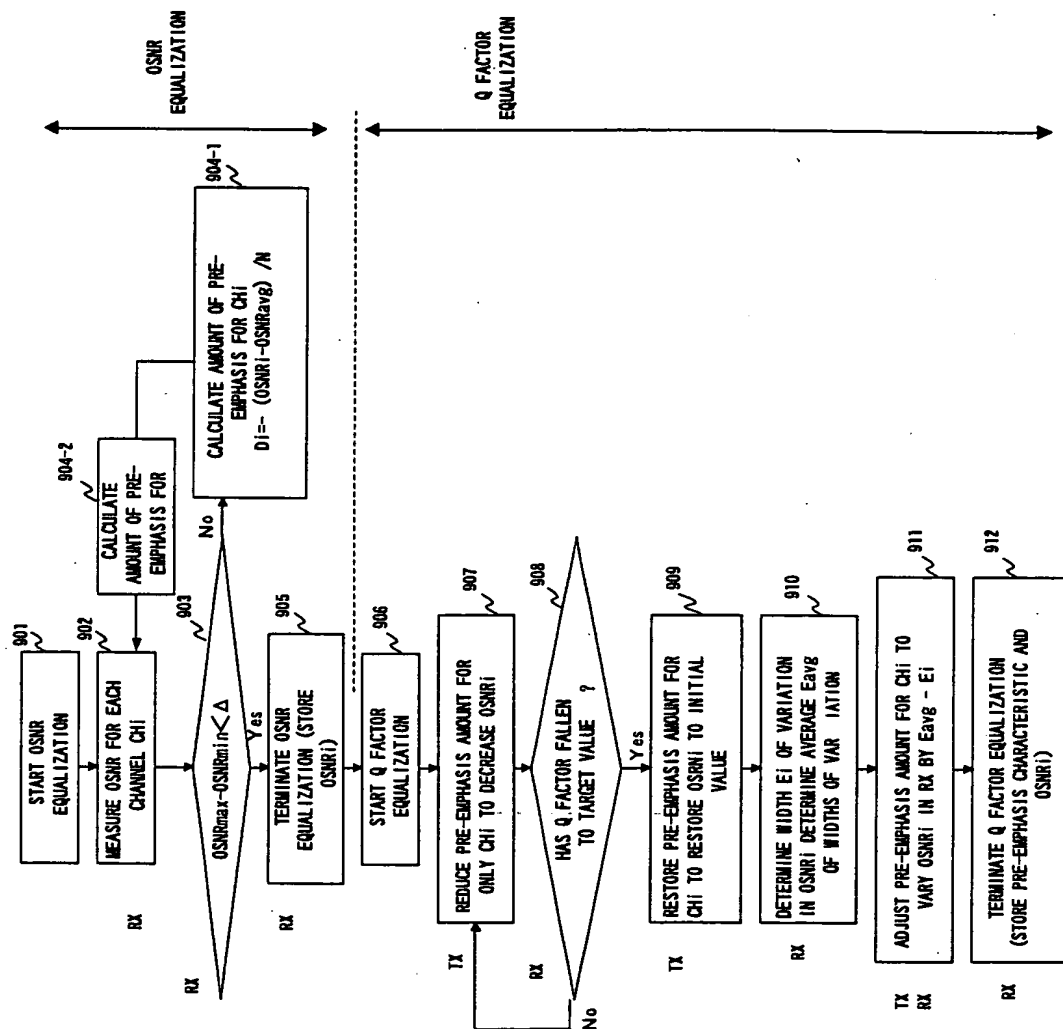


FIG. 22

1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States.

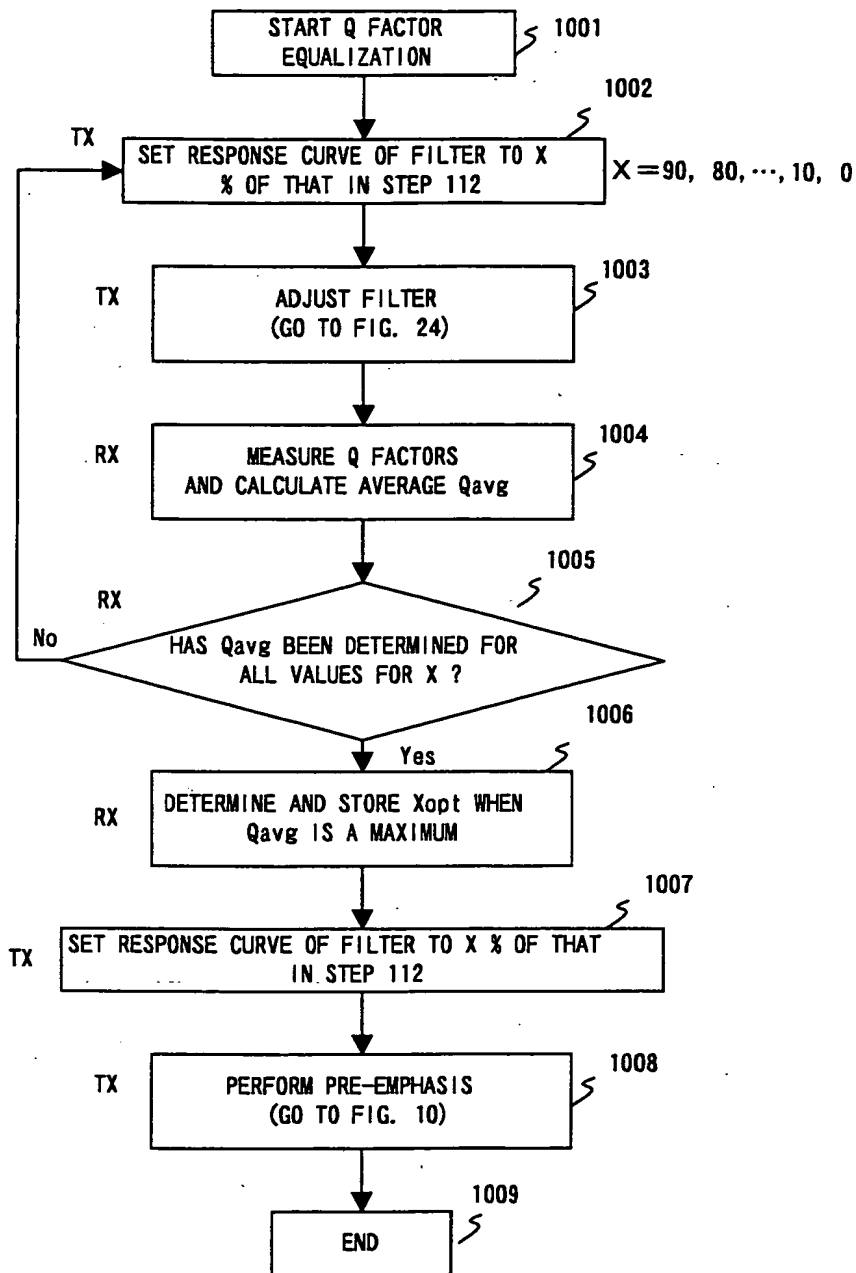


FIG. 23

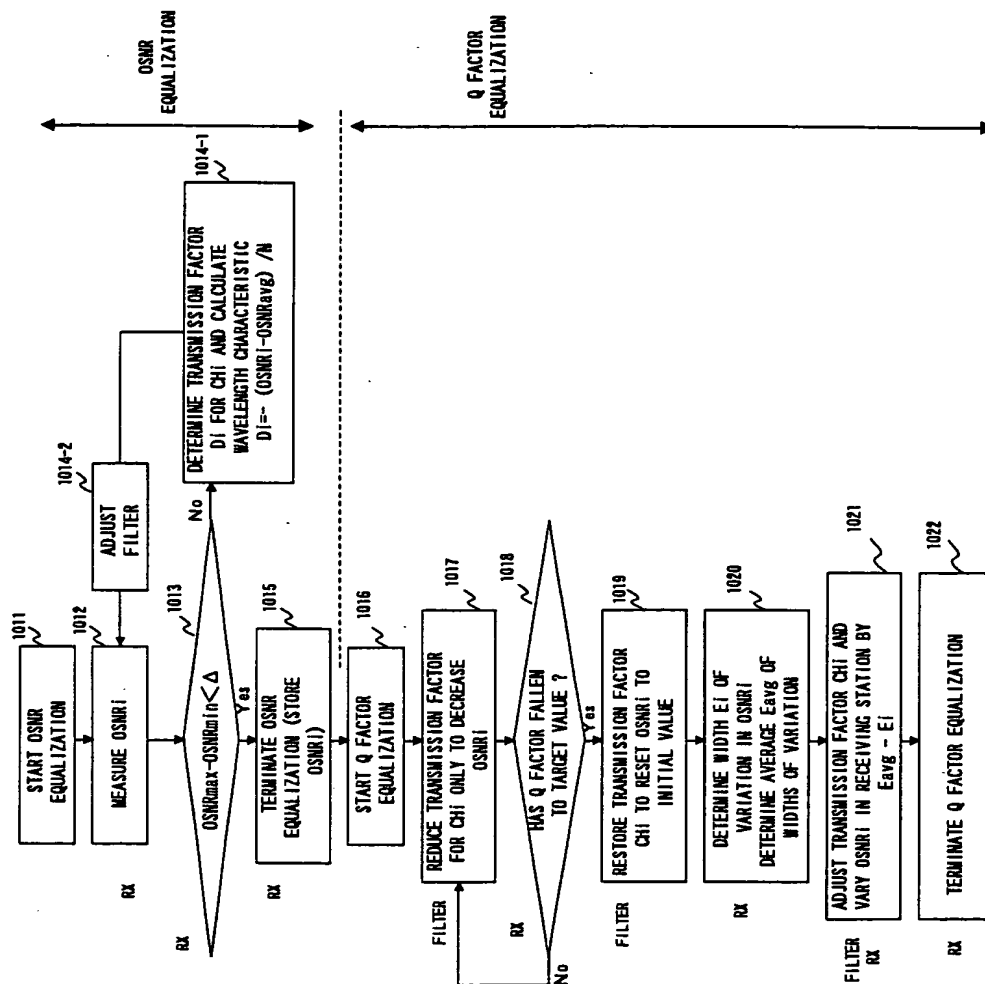


FIG. 24

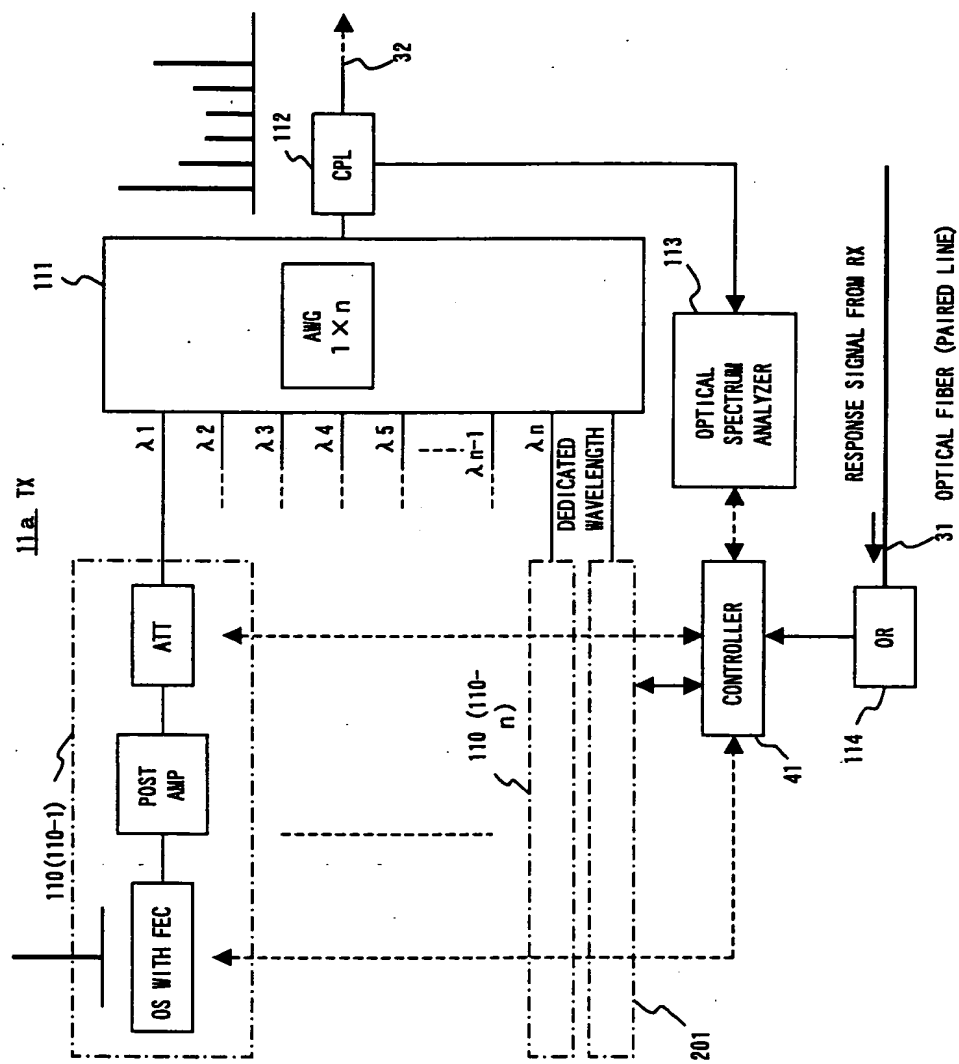


FIG. 25

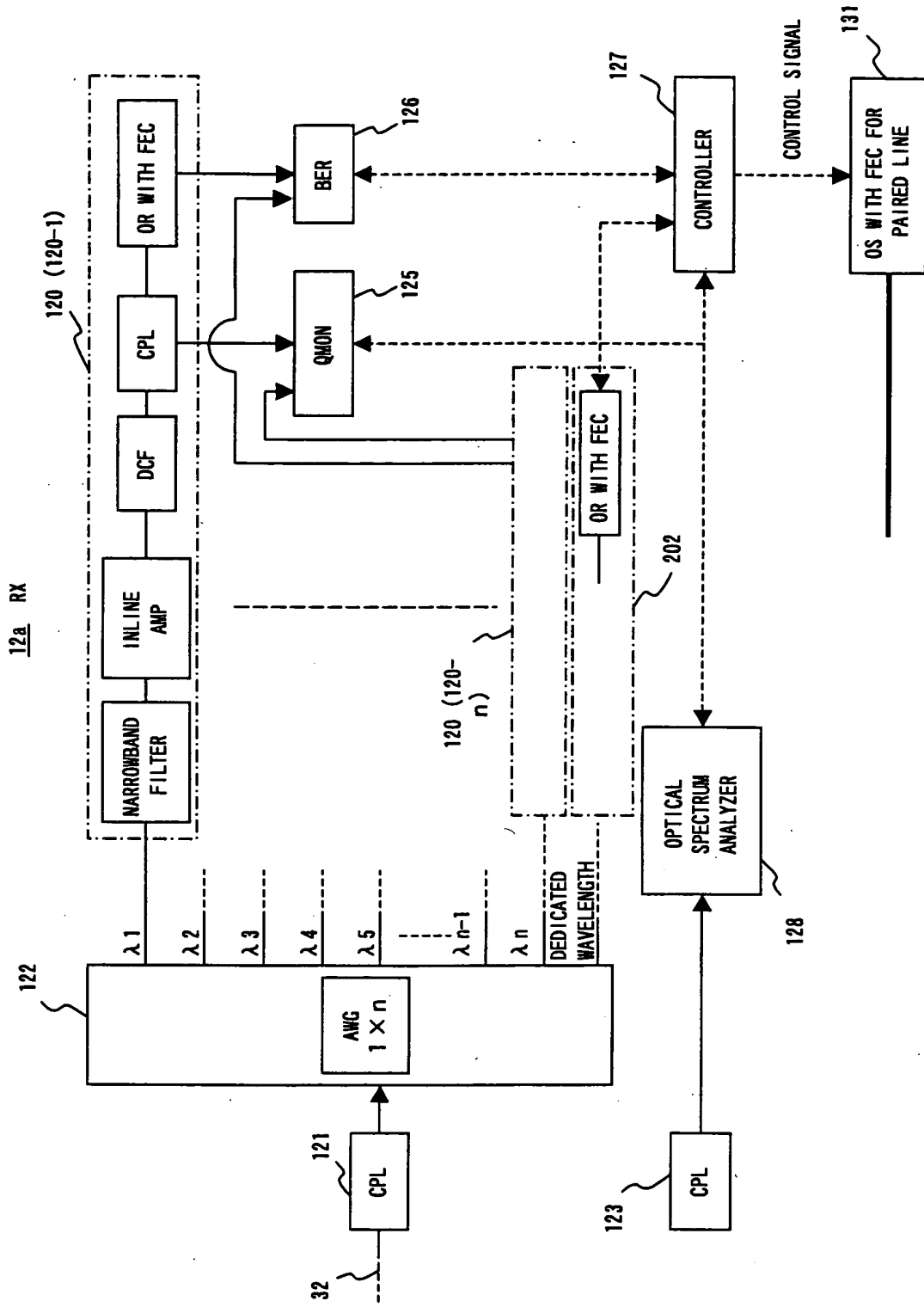


FIG. 26